IBM® Licensed Program Specifications

IBM C For System/370 (VM/CMS) Version 1.0
Program Number 5713-AAH

IBM C for System/370 provides a general purpose, high function programming language. Its flexibility permits the programmer to easily accommodate the task of dealing with machine-level entities at a low-level, while at the same time providing the high-level control and data structures associated with modern, structured, programming languages.

IBM C provides a portable language that is ideal for those enterprises developing applications that are required to execute in a variety of operating environments.

The C language is a participant of IBM's SAA (System Application Architecture). Although this licensed program (5713-AAH) is not part of SAA, it can be used to gain early experience with the C interface.

The IBM C for System/370 (VM/CMS) consists of the compiler and a library. Existing System/370 interfaces are used; new interfaces are not introduced.

The IBM C for System/370 (VM/CMS) Compiler

The IBM C for System/370 (VM/CMS) is compatible with the emerging ANSI C-language standard as described in the X3J11 Information Bulletin on the C Draft Standard dated April 1985, published by CBEMA and as understood and interpreted by IBM.

The major highlights are:

- Interactive, source level debugger
- Native System program execution available via the system() function
- Inter-language calls to Basic Assembler Language (BAL) subprograms and other selected IBM products.
- Source level compatibility between VM/CMS and MVS C compiler products
- VM/CMS and MVS C compiler products produce compatible object code allowing cross-system development
- Reentrant code allowing for modification of static data
- IBM C can produce assembler source files from user C programs
- Listings with C source code, interspersed with the resulting Basic Assembler Language (BAL) code may be produced
- Compiler messages can be interspersed within a listing or viewed at the user terminal
- Generates stand-alone executable modules, e.g. no transient libraries required

Specified Operating Environment

Machine Requirements

The IBM C for System/370 (VM/CMS) compiler and library (5713-AAH), is designed to run on any IBM 30xx, 43xx, 937x processor that supports VM/SP with or without HPO, or VM/XA Systems Facility. A virtual machine of at least 1MB is required to compile a program.

Programming Requirements

The IBM C for System/370 (VM/CMS) compiler and library (5713-AAH), runs under:

- VM/SP Version 1 Release 4 or later (5664-167) with or without HPO
- VM/XA Systems Facility Release 1 or later (5664-169). CMS/Extended Data Array Capability (5798-DWA) with the RPQ for VM/XA (8K1296) is required to exploit the extended data addressing capability on VM/XA SF

Licensed Program Materials Availability

- Restricted materials - No. This licensed program is available without source licensed program materials. It is available in object code.

Supplemental Terms

Testing Period

- Basic License: 1 month

Installation/Location License

- Not applicable. A separate license is required for each machine on which the licensed program will be used.

Usage License

- Not applicable

Type/Duration of Program Services

- Central Service
- Until discontinued by IBM with a minimum of six months written notice

Warranty

The IBM C for System/370 (VM/CMS) Version 1.0 will conform, when shipped to the Customer, to its Licensed Program Specifications which are in effect for it at that time, provided it is properly used in a Specified Operating Environment. If the Customer believes there is a defect in the program such that it does not meet its Licensed Program Specifications, the Customer must notify IBM while Program Services are available for the program. IBM does not warrant that the functions contained in the program will meet the Customer's requirements or will operate in the combinations which may be selected for use by the Customer, or that the operation of the program will be uninterrupted or error free or that all program defects will be corrected.

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